DOCUMENT RESUME

ED 400 183 SE 059 027

AUTHOR Illingworth, Mark
TITLE Real-Life Math Problem Solving: 40 Exciting, Classroom-Tested Problems with Annotated Solutions.
REPORT NO ISBN-0-590-48804-X
PUB DATE 96
NOTE 136p.
AVAILABLE FROM Scholastic, Inc., 555 Broadway, New York, NY 10012.
PUB TYPE Guides - Classroom Use - Teaching Guides (For Teacher) (052)

EDRS PRICE Document Not Available from EDRS.
DESCRIPTORS Cognitive Processes; Evaluation; Intermediate Grades; Junior High Schools; *Mathematical Logic; *Mathematics Curriculum; *Mathematics Instruction; *Problem Solving; Resource Materials; *Thinking Skills

ABSTRACT

Students better understand problem solving when the basis for the problems are real-life situations. This book, geared for grades 4-8, offers multi-step, real-life problems to encourage students to think flexibly, creatively, and analytically about problem solving. It includes ideas for setting up a problem-solving classroom and assessment strategies. A comparison is included contrasting traditional textbook problems with real-world problems. It is emphasized that problem-solving should be integrated into all math topics. A checklist for guiding problem solvers is provided, including setting the mood and modeling an approach, noticing and responding to students' work habits, and managing the work sessions. Another section contains suggestions for making room for problem-solving within your school schedule, how to set up your classroom, and how to plan a problem-solving unit. Learning styles of introverted and extroverted students are discussed, as well as the importance of asking leading questions and drawing upon what students already know. Techniques for offering help and suggestions for boosting self-esteem are presented. The book also has 40 classroom-tested, real-life problems, followed by illustrated possible approaches to their solutions. (AIM)

****
* Reproductions supplied by EDRS are the best that can be made *
* from the original document. *
****